

REMARKS

Claims 1-21 are pending in the application. Claims 1-8, and 11-21 are rejected. Claims 9 and 10 are objected to. Claims 1, 5, 7, 12, 14, 15, 19, and 21 have been amended. Claims 4, 11, and 18 have been canceled.

The claims were rejected under 35 USC 112, second paragraph. The claims have been amended and are now believed to be allowable under 35 USC 112, second paragraph.

Claims 1, 4, 5, 8, 11, 12, 15, 18, and 19 were rejected under 35 USC 103(a) as being unpatentable over Hogeboom in view of Mascenas. Claims 6, 13, and 20 were rejected under 35 USC 103(a) as being unpatentable over Hogeboom and Mascenas and further in view of Pandey. Claims 7, 14, and 21 were rejected under 35 USC 103(a) as being unpatentable over Hogeboom and Mascenas and further in view of Aikawa. Claims 1, 8 and 15 include "...a frequency of an oscillating signal from the CCO changing in response to the modification of the first current, a phase of the oscillating signal changing in response to the modification of the second current." The references of record do not show, teach, or suggest the above recited limitations of claims 1, 8, and 15. The Mascenas reference fails to teach that the phase of the oscillating signal from the CCO changes in response to the modification of the second current. Claims 2, 3, and 5-7 depend from claim 1. Claims 9, 10, and 12-14 depend from claim 8. Claims 16, 17, and 19-21 depend from claim 15. Therefore, claims 1-3, 5-10, 12-17, and 19-21 are believed to be allowable over the references of record.

It is believed that the above remarks and amendments are fully responsive to the Official Action. Reconsideration and allowance are therefore respectfully requested.

Respectfully submitted,

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